Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other works)

No: FIRST and PART BILL Date: **Job code No: 012-18-000001** (P code1808)

Division: **Dasarahalli** **Sub Division: Shettyhalli Sub Division**

Bill Received No..... Date..... Cash Book Voucher No..... Dated.....

Scheduled Documented No.

Name of work (as per sanctioned estimate):- **Construction of ward office Banganlore one, Library and Helpline, Multipurpose building in Abbigere in Ward No 12 Shettyhalli.**

Name of the Contractor and Full Address: - **M/S Technical Manger (west) KRIDL**

/Reference to work order : EE/DD/WO/370/2019-20 **DATE: 01-08-2019**

Certified that the measurement were taken by me on 20/3/2020 and recorded of pages 483628-483635

Of measurement Book No: 4837/19-20 And that the work is satisfactorily executed.

Contractor

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

Office-in-charge of work

Certified that the measurements were taken by me on 20/02/2020 And found correct.

The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agree upon. A normal agreement signed and executed by the contractor is recorded in the office.

(Sub division officer)

If Memorandum of Payment **Job code: 012-18-000001**

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

1)Total value of work done or supplies made as per account within	1st and part Bill → 13705696=00
2) Deduct amount to be held in reserve being.....percent Rs.....	13640342
3)Deduct amount to be held in Balance	IT → 274114=00
4)Deduct Payments:	LWC → 13757=00
a)Amount of Previous payment as in the office Cash book Voucher No..... Dated.....S.D.No.....	CRF → 13706=00
Amount adjusted towards cash advance recovery of	Roy → 109029=00
b)Payments cost store or other materials supplied	CGST → 122372=00
Now made recovery of amount creditable to this/other work	SGST → 122372=00
Amount paid on this bill Cheque/Cash.	FSD → 685285=00
5)Balance being unpaid value of work done held in reserve	14639335
6)Deduct cash advance made on the office cash Book Voucher No..... Dated..... less adjustements	12176407
7)Net amount due to or from contractor	Net Amount → 12241761=00
Unadjusted items	
8)Advance to contractor for materials brought to site (as detailed) with	
Value of Government materials supplied	

Contractor's Signature

Received Rs..... (in words)

.....

By cash and by adjustment of Payment as per memorandum.

Witnesses:

1

2

Dated..... Signature of Contractor

Paid by me by cheque No..... Dated.....

Cast Rs.....

Initials of Office making payment

13640342

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

(For use in the Office)

Audited and admitted for Rs 13705696=00

by Cheque for Rs 12241761=00

Crore Twenty two Lakh Forty one thousand Seven Hundred Sixty one only

by adjustm 1463935=00

Executive Engineer

Exe. Engineer

B.B.M.P Dasarahalli Division

Sl. No.	Description of Item	Unit	Previous		Present Measurements			Total up to date	
			Qty	Amount	Qty	Rate	Amount	Qty	Amount
1	Earthwork in surface excavation for levelling and loweringthe ground manually (Other tha foundation of buildings, culverts, road drains and trenches of pipe lines and cables) an removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavate surface levelled and neatly dressed, disposed earth to be levelled including breaking clods and neatly dressed as per specifications,	Cum	-	-	227.50	183.12	41659.80	227.50	41659.80
2	**Earth work excavation for foundation of building** water sanitary lines and electric conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceedir 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking th excavated soil clear from edges of excavation with lead upto 50m after breaking of col complete as per specifications.	Cum	-	-	483.60	484.92	234507.31	483.60	234507.31
3	Providing and Filling in foundation with granite / trap broken metal 100mm. and dow size, with approved sand including hand packing, ramming, watering, including cost of a materials and labour with all lead and lift, complete as per specifications, specification.	Cum	-	-	33.89	2283.98	77404.08	33.89	77404.08
4	Providing and injecting chemical emulsion for chemical barrier underand around th column pits, walls, trenches,basement excavation, top surface of the plinth filling, junctio of wall and floor, along the external perimeter of building, expansion joints, over the to surface of consolidated earth on which apron is to be laid, surrounding of pipes an conduits, with chloropyriphos emulsifiable concentrates of 20% concentration, includin cost of chemical, diluting in water to one percent concentration, labour, HOM c equipments, complete as per specifications. (Plinth area of the building at ground floor onl shall be measured)	Sqm	-	-	526.45	111.24	58562.30	526.45	58562.30
5	Providing and laying in position plain **cement concrete of mix 1:3:6 with OPC** cement 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum an fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers nc exceeding 15 cms. thick, well compacted, in foundation including cost of all material labour, HOM of machinery, curing complete as per specifications.	Cum	-	-	125.32	5609.52	702985.05	125.32	702985.05
	Providing and constructing **granite /trap/ baslat size stone masonry in foundation** wit cement mortar 1:6, stones hammerd dressed in courses not less than 20cms high, bon stones at two m. apart in each course including cost of materials, labour, curing complete a per specifications	Cum	-	-	136.96	4853.52	664738.10	136.96	664738.10
	Providing and constructing **granite /trap/ baslat size stone masonry in basement** with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15cms high, bonc stones at two m. apart in each course including cost of materials, labour, curing complete a per specifications	Cum	-	-	46.53	5921.64	275533.91	46.53	275533.91

8	**Providing ruled pointing to coursed stone masonry** with cement mortar 1:3 20mm de after raking joints to depth of 20mm necely lining, including cost of materials, la curing complete as per specifications	Sqm	-	-	39.78	153.36	6100.66	39.78	6100.66
9	Providing and laying in position **plain cement concrete of nominal mix 1:2:4** using 20m and down size graded granite metal machine mixed concrete liad in layers not exceedi 15cms thick well compacted in foundation plinth and cills including cost of all materia labour HOM of machinery, curing complete as per specifications	Cum	-	-	21.84	5855.76	127889.80	21.84	127889.80
10	**Filling avaialble excavated earth** (excluding rock) in sides of foundations upto plinth layers not exceeding 20cms in depth compacting each deposited layers by ramming aft watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as p specification	Cum	-	-	711.10	217.08	154365.59	711.10	154365.59
11	Providing and laying in position reinforced cement concrete of **design mix M25 with OP cement @ 340kgs**, with 20mm and down size graded granite metal coarse aggregat @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS910 1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thic vibrated for all works in ground floor level for roof slabs, staircase, lintles and bean retaining walls, return walls, walls (any thickness) including attached pilasters, column ,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed block anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HO of machinery, curing, complete but excluding cost of reinforcement as per specifications.	Cum	-	-	315.25	6528.60	2058141.15	315.25	2058141.15
2	**Providing and laying in position reinforced cement concrete of design mix M20** wi OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregat @0.05175cum and fine aggregtes @ 0.0345cum, with superplastisiser @0.225lts, machi mixed, well compacted for **plain chajja of 7.5 cms. average thickness**, upto ground flo level, including cost of all materials, labour, HOM of machinery, finishing, curing, comple but excluding cost of reinforcement as per specifications.	Cum	-	-	34.56	475.20	16422.91	34.56	16422.91
	Providing and fabricating TMT Steel (cold, Twisted) reinforcement for R.C.C. wo including straightening, cutting, bending, hooking,placing in position, lapping and / welding wherever required, tying with binding wire and anchoring to the adjoining membe wherever necessary complete as per design(laps and wasteage shall not measured and pa cost of materials. labour. HOM of machinery complete as per specifications **Fe 550**	Ton	-	-	39.41	77239.44	3044006.33	39.41	3044006.33
	Providing and removing centering shuttering strutting propping etc., and removal form work for **columns,** pillars, abutments, post and struts square/ rectangular/ polygon plan including cost of all materials labour complete as per specification	Sqm	-	-	315.90	492.48	155574.43	315.90	155574.43

15	**Providing and removing centering shuttering** strutting propping etc., and removal form work for sides and soffits of **beams beam houchings** cantilever girders bressum and lintels not exceeding 1m in depth including cost of all materials, labour complete as specification	Sqm	-	-	344.73	315.36	108714.05	344.73	108714.05
16	**Providing and removing centering shuttering** strutting propping etc., for **chejjas**, corb etc., including edges including cost of all materials, labour complete as per specifications	Sqm	-	-	8.16	348.84	2846.53	8.16	2846.53
17	**Providing and removing centering, shuttering**, strutting propping etc., and removal form work for **stairs** (excluding landing) except spiral staircase including cost of materials labour complete as per specification	Sqm	-	-	28.68	561.60	16106.69	28.68	16106.69
18	**Providing and removing centering, shuttering**, strutting, propping etc., and removal form work for flat surface such as suspended floors, **roofs**,landing, balconies and lik thickness upto 200mm including cost of materials, labour complete as per specification	Sqm	-	-	429.37	432.00	185487.84	429.37	185487.84
19	Providing and constructing **pre cast concrete solid blocks** with compressive strength n less than 35 kg/sqm with cement mortar 1:4 masonry (quoins, jamb,closer blocks) with sol concrete blocks of size 400x200x200cms conforming to I.S: 2185/1965 in superstructu including cost of materials,labour charges,scaffolding,curing etc., complete as p superstructure	Sqm	-	-	447.89	1011.96	453246.76	447.89	453246.76
20	**Providing and constructing pre cast concrete solid blocks** with compressive strength n less than 35 kg/sqm with cement mortar 1:4 masonry (quoins, jamb,closer blocks) with sol concrete blocks of size 40x10x20cms conforming to I.S: 2185/1965 in superstructu including cost of materials,labour charges,scaffolding,curing etc., complete as p superstructure	Sqm	-	-	20.10	875.88	17605.19	20.10	17605.19
21	**Providing Honne wood frames of doors, windows**, clerestory windows, ventilators ar other frames wrought, framed of assembled including making plaster grooves (excludir cost of materials, labour, HOM of machineries complete as per specifications	Cum	-	-	0.99	73228.32	72496.04	0.99	72496.04
22	**Providing and fixing in position fully panelled Honne wood shutters for doors**, styl and rails of 40mm, thick with bottom and lock rails 180mm wide top rail and styles 100m wide as per drawing and panels of 25mm thick including cost of materials, labour,HOM machineries completed as per specification (excluding cost of fixtures)	Sqm	-	-	0.00	5099.76	0.00	0.00	0.00
	Providing and fixing in position shutters for doors made out of Honne wood styles ar rails of 35mm. Thick with bottom and lock rail 180mm wide top rail and styles 100mm wi as per drawings and panels of 18mm thick is exteriors grade melamine impregnate prelaminations particle board colour on one sides including cost of materials, labour, HO of machineries complete as per specifications.(excluding cost of fixtures)	Sqm	-	-	0.00	3722.76	0.00	0.00	0.00

	Providing and fixing M.S. grill work for windows and ventilator weighing 21kg/S							
24	using M.S. flats, or M.S square rods or combination of M.S. flats and steel sections a	Kg	-	-	1651.35	102.60	169428.51	1651.35	169428.51
	welding the same to required pattern with a coat of red lead primer, cost of materia								
	fixtures labour and HOM of machinery specifications								
	Providing and fixing in position anodized alluminium windows and ventilators as								
	approved drawings with sliding shutters using double track window frame section of s								
	122.2x31.75mm with 1.2mm thick, bottom section weight of 0.695 kg per m, sides and t								
	section of 1.3mm thick weight of 0.659 kg per m and shutter comprising top and bott								
	section of size 40mmx18mm , 1.25mm thick of 0.417 kg per m shutter outer si								
	40mmx18mm, 1.25mm thick weight of 0.417 kg per m, shutter interlock section 40m								
25	26.7mm , 1.1mm thick, wieght of 0.469 kg per m the shutter mounted on nylon roller wi	Sqm	-	-	2.70	4020.84	10856.27	2.70	10856.27
	approved quality of fixture such as alluminium tower bolts etc., and providing and fixi								
	5.5mm thick plain glass of shutter fitted with rubber beading alluminium section anodiz								
	12 to 15 microns including cutting to required length, joints mitred sub dividing the fra								
	tenonned revited in the assembled frame stiffened with end clips at corners angles etc., a								
	fixed to walls, lintles, floor beams or cills as the case may be with necessary steel screw								
	raul plugs, or teak wood gatties including cutting masonry or concrete and making good t								
	original surface using cement mortar, alluminium section pre treated for removal of any m								
	Providing and fixing in position collapsible steel shutters with single or double le								
	with vertical channel 20mmX10mmX2mm braced with flat iron diagonals 20mmx5m								
26	size with top and bottom rails of T Iron sections of 40X40X6mm with 38mm dia ste	Sqm	-	-	8.10	5626.80	45577.08	8.10	45577.08
	pulleys complete with bolts and nuts, locking arrangements, stoppers, handles coat of re								
	lead paint, cost of materials, labour, HOM of machinery complete as per specifications siz								
	of gate 2.4mX1.4m								
	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceilin								
27	incluidng rounding off corners wherever required smooth rendering providing and removir	Sqm	-	-	474.78	253.80	120499.16	474.78	120499.16
	scaffolding including cost of materials, labour curing complete as per specification								
	Providing 18mm thick cement plaster in single coat with cement mortar 1:3, to bric								
28	masonry including rounding off corners wherever required smooth rendering: providing ar	Sqm	-	-	782.33	298.08	233196.93	782.33	233196.93
	removing scaffolding, including cost of materials labour curing complete as p								
	specifications								
	Providing lime rendering for plastering to wall and ceiling, including cost of materia								
9	labour, curing complete as per specifications	Sqm	-	-	1257.11	34.56	43445.72	1257.11	43445.72
	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to sto								
	masonry & concrete surface including rounding off corners wherever required smoo								
	rendering,: Providing and removing scaffolding, including cost of materials, labour, curi	Sqm	-	-	473.79	319.68	151461.19	473.79	151461.19
	complete as per specifications								

31	KSRB 15.8.1 Providing and fixing plaster mesh 100mm wide manufactured out of dipped galvanised iron of nominal thickness 0.35mm with a zinc coating of 120gms per s width, along route of walls chipped for services, junction between RCC and brick w including cost of materials, labour for fixing complete as per specifications, (length of m only be measured for payment) KSRB 15.8.2- d o -plaster mesh 150mm wide	Rmt	-	-	250.00	38.88	9720.00	250.00	9720.00
32	Providing and laying non-asbestos high impact polypropylene reinforced corrugated cem roofing sheet reinforced with a blend of strong factory made fibers as per 13:14871 ISO:9933:1995 (E) roofing upto any pitch and fixing with polymer coated J o hooks,bolts and nuts 8mm dia,G.I plain and bitumen washers or with self drilling faste and EPDM washers etc. complete but excluding the cost of purlins, rafters and trus Including cutting to size and shape of corrugated sheets wherever required.and cost materials, labour complete as per specifications. -do-with Other colou	Sqm	-	-	32.40	628.56	20365.34	32.40	20365.34
33	Providing and laying flooring using prepolished, water cut/gang saw 19mm thick gran laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigm to mach shade of granite slabs including laying POP on finished surface and cleaning surface, including the cost of all materials and labours etc., complete as per specification using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of wi not less than 1200mm	Sqm	-	-	403.42	2958.12	1193364.77	403.42	1193364.77
4	Providing and fixing of wail cladding using 20mm thick gang saw water cut Shiva g granite, grey granite in CM 1:3 proportion cut to required shape, pattern with paper joi finished with cement mortal using white cement and colour pigments to match the colou slab making through jointing with sealant, making holes 25mmx12mm grooves in joi including cost of all	Sqm	-	-	0.00	3809.16	0.00	0.00	0.00
	Providing colour glazedzed tiles of all sizes 10mm thick for flooring, treads of steps landing laid on a bed of 12mm thick , cement mortar 1:3 mix, flush pointing using wh cement,with matching colour pigment, including cost of a materials, labour, curi complete as per specifications(30 X45) (Page No. 108, Item No. 14.41.3)	Sqm	-	-	0.00	1377.00	0.00	0.00	0.00
	Providing and fixing colour glazed tiles of size 300mmx450mm for walls with borders size 300x100mm, set in Cement Mortar 1:3 and pointed with white cement with match colour pigment with necessary curing, cleaning including providing and remov scaffolding wherever necessary etc., complete. The work includes cost of all materi abour charges for all items of work, hire charges for equipment, etc., complete as pecification	Sqm	-	-	0.00	1308.96	0.00	0.00	0.00

37	**Providing and laying integral cement based water proofing treatment** includ preparation of surface as required for treatment of roofs, balconies terraces etc., consis of following applications a) applying and grouting a slurry coat of neat cement using 2 kg per sqm of cement admixed with proprietary water proofing compound confirming to 2645 over the RCC slab after cleaning the surface before treatment b)laying cem concrete using broken brick bats 25mm to 100mmsize with 50% of cement mortar admix with propreatory water proofing compound confirming IS 2645 over 20mm th layer of cement mortar 1:5 admix with proprietary water proofing compound to requi slope and treating similarly the adjoining walls upto 300mm height including rounding junctions of walls and slabs c)after two days of proper curing applying a second coa cement slurry admix with preprietoray water proofing compound d) finishing the surf with 20mm joint less cement mortar of mix 1:4 admix with preprietary water proo compond wall finally finishing the surface with travel and neat cement slurry and makin 300 x 300 mm square e the whole terrace so finished shall be flooded with water fo minimum period of two weeks curing and final test including cost of materials labour	Sqm	-	-	249.63	1086.48	271218.00	249.63	271218.00
38	**Providing and applying painting two coats with plastic emulsion paint** of appro brand on wall surface to give an even approved shade after throughly brushing the surf free from mortar drops and other foreign matter including preparing the surface even sand paper smooth, cost of materials, labour, complete as per specifications **with primer**	Sqm	-	-	0.00	97.20	0.00	0.00	0.00
39	**Extra for providing and applying every subsequent coat of painting with pla emulsion paint** of approved brand and shadefor Item No.15-15.1 and 15.53 cost materials, labour complete as per specifications	Sqm	-	-	0.00	39.96	0.00	0.00	0.00
40	**Providing and finishing external walls in two coats with waterproof cement pain** approved brand and shade to give an even shade after throughly brooming the surfac remove all dirt and loose powdered materials, free from mortar drops and other fore matter cost of materials, labour, complete as per specifications	Sqm	-	-	0.00	110.16	0.00	0.00	0.00
41	**Extra for providing and applying every subsequent coat of water proofing cem paint** of approved brand and shade for item No.15-16.1 cost of materials,labour,complet per specifications	Sqm	-	-	0.00	36.72	0.00	0.00	0.00
42	**Applying priming coat over new wood surface** and/ or wood based surface after prepa the surface after throughly cleaning oil, grease, dirt and foreign matter, sand papering knotting liquid wood filler, for varnish including cost of materials, labour, complete as specificatios	Sqm	-	-	0.00	54.00	0.00	0.00	0.00
43	**Providing and applying painting two coats (excluding priming coat)** on new v surface and/ or wood based surface with enamel paint to give an even shade, cleaning surface of all dirt, dust and foreign matter, sand papering including cost of materials, lab complete as per specifications	Sqm	-	-	0.00	104.76	0.00	0.00	0.00

44	Providing and fixing on wall surface 4.0kg?Sq.cm **H.D.P.E. rain down water pipes 90** **outer dia approved** make and brand with necessary specials like shoes, bends and offs fixed with iron clamps, wall plugs, screws, including cost of materials, labour, complete per specification	Rmt	-	-	0.00	414.46	0.00	0.00	0.00
45	Providing and fixing **chorinated poly venyl chloride (CPVC) pipes** conforming IS15778, having thermal stability for hot and cold water supply including all CPVC pl and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. t includes jointing of pipes and fittings with one step CPVC solvent cement and the cost cutting chases & making good the same including testing of joints complete 25mm nomi OD Pipes	Rmt	-	-	150.00	270.00	40500.00	150.00	40500.00
46	Providing and fixing **chorinated poly venyl chloride (CPVC) pipes** conforming IS15778, having thermal stability for hot and cold water supply including all CPVC pl and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. t includes jointing of pipes and fittings with one step CPVC solvent cement and the cost cutting chases & making good the same including testing of joints complete 32mm nomi OD Pipes	Rmt	-	-	100.00	334.80	33480.00	100.00	33480.00
47	KSRB 13-8.1 : Providing and fixing to wall, ceiling and floor, medium density polyethyle pipes 6.00 kgs/sq.cm working pressure 20mm outside diameter with special flan compression type fittings, wall clips, making good the wall, ceiling and floor including c of all materials, labour charges, HOM of equipments and testing complete as specifications. Specification No.KBS 13.2.15.1 /13.9 for internal water supply connection	Rmt	-	-	45.00	460.08	20703.60	45.00	20703.60
48	Providing and fixing white vitreaus **china clay, flat back, lipped front urinal basin 430x260x350mm** with 5 litre PVC automatic flushing cistren, C.I./M.S bracket, stand flush pipe and c.P. brass spreaders with brass union and G.I.Clamp Complete painting fitting and brackets, cutting and making good the wall and floor wherever require including cost of materials, labour complete as per specification **(Page No. 80, item 12.7)**	Nos	-	-	0.00	3317.76	0.00	0.00	0.00
	KSRB 11-5 : Providing and fixing white vitreous china clay, **water closet European typ Pedestal type, P-trap) with black solid plastic seat** and lid, C.P brass hinges, rub buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangem with special and 25mm mosquito proof coupling of approved design, painting of fittings brackets, cutting and making good the wall and floor wherever required, including cos materials, labour complete as per specifications. Specification No.	Nos	-	-	0.00	5191.56	0.00	0.00	0.00

50	Providing and fixing C.I. **Nahani trap** of approved make conforming to ISI specific and constructin of Cistern in CC 1:2:4 as per directions (Rate is inclusive of cos materials and fixture and conveyance of materials to work spot) 10cms to 7.5cms	Nos			8.00	307.80	2462.40	8.00	2462.40
51	Providing and fixing 7.5cms to 15cms dia NP grating 100mm dia (page no 90 , Item 12.111)	Nos			0.00	172.80	0.00	0.00	0.00
52	**providing and fixing in position brass gate valve** with C.I. Wheel of approved quali Screwed end) 32mm nominal bore including cost of all materials labour and HOM Equipments with all lead complete as per specificatins	Nos			0.00	1050.84	0.00	0.00	0.00
53	Providing and laying in position to required level or slope 230mm internal diameter glazed stoneware pipes grade A and jointing with stiff mixture of cement morta proportion of 1:1, testing of pipes and joints,including cost of materials, labour cha Complete as per specification and direction of Engineer-in-charge of the work.	Rmt			0.00	564.84	0.00	0.00	0.00
54	Constructing brick masonry inspection chamber 455x610 mm, and 450 mm depth, (c inside dimension) for single pipeline, using table moulded non-modular bricks of c designation 50 in cement mortar 1:5 in C.I.cover with frame (light duty 455x610 internal dimensions, total weight of cover with frame to be not less than 38 kg (weigh cover 23 kg and weight of frame 15 kg) R CC Top slab with cement concrete1:2:4 mi mm and downsize granite metal, foundation concrete 1:5:10 with 40 mm and down granite metal inside plastering 12 mm rhick with cement mortar 1:3 finish smooth wi floating coat of cement on walls and bed concrete complete as per standard de including cost of materials, labour charges, curing Complete as per specification direction of Engineer-in-charge of the work.	Nos			0.00	7604.28	0.00	0.00	0.00
5	Providing ,supplying & commissionig of 1 H.P submersible single phase of M ATLANTA/SUGUNA/CRI/ KIRLOSKAR/OTER EQUIVALENT PUMPS. Complete per specification and direction of Engineer-in-charge of the work.	Nos			1.00	12600.00	12600.00	1.00	12600.00
	Providing and fixing in position brass bib cock of approved quality 25 mm nominal b including cost of all materials, labour and HOM of equipments with all leads, complete per specifications. Complete as per specification and direction of Engineer-in-charge of work.	Nos			0.00	288.32	0.00	0.00	0.00
	Providing and placing on terrace , polyethylene water storage tanks with manhole and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications (For 1000 litre capacity)	Nos			0.00	7158.24	0.00	0.00	0.00
	Providing and fixing 453x357mm rectangular shape mirror with plastic moulded frame of pproved make and shade with 6mm thick hard board backing incluidng cost of materials, abour Complete as per specification and direction of Engineer-in-charge of the work.	Nos			0.00	1250.80	0.00	0.00	0.00

59	Supply of the 50 HP Tractor on daily rate basis to the required place as per the directi the Engineer in charge Complete as per specification and direction of Engineer-in-cha the work.	Per day			24.00	2512.00	60288.00	24.00	60288.00
60	Supply of the Labour Heavy Mazdoor to the required place as per the direction of engineer in charge Complete as per specification and direction of Engineer-in-charge o work.	Per day			72.00	258.88	18639.36	72.00	18639.36
61	Hire charhes of JCB Excavator for dismantling the existing buiding Complete as specification and direction of Engineer-in-charge of the work.	Per day			18.00	6720.00	120960.00	18.00	120960.00
62	Air Compressor 250 cfm with pneumatic breaker/ jack hammer along with accesso Complete as per specification and direction of Engineer-in-charge of the work.	Per day			240.00	257.00	61680.00	240.00	61680.00
63	Hire charges of Tipper for shifting of debries to the designated quarry Complete as specification and direction of Engineer-in-charge of the work.	Per day			56.00	2016.00	112896.00	56.00	112896.00
	Supply & delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/cala waterman/Radha make suitable HP deep well submercible pumpset suitable for ver installation in 150 dia borewells compressing of single stage or multistage CF pump c coupled by means of stainless steel coupling to suitable HP suitable speed totally encl and filled with pure drinking water squirrel cagesubmercible induction motor suitable operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories suc suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump motor shall from an integral unit with all the required fittings 15HP/11KW 25 stage	Nos			1.00	90000.00	90000.00	1.00	90000.00
	Providing, laying & jointing GI pipes confirming to IS specification of approved make fittings such as collars bends elbows tees nipples plugs with cuts threads using white lea threads for joints wherever necessary as per direction including all lead & lift etc,. comp 'A' grade(excluding cost of fittings) 50mm dia GI pipe	Rmt			192.00	650.00	124800.00	192.00	124800.00
	Coller	Nos			33.00	225.00	7425.00	33.00	7425.00
	Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of 130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage 100 volts 4 sqmm of 56 strands 0.3mm dia	Rmt			220.00	175.00	38500.00	220.00	38500.00
	SRB 11-11.2 : Providing and fixing white vitreous china clay, flatback wash basin 0x450mm with a single 15mm C.P brass pillar tap with C.l I M.S brackets, 32 mm C ass waste of standard pattern, painting of fittings and brackets, cutting and making g wall and floor wherever required, including cost of materials, labour complete as p ecifications. Specification No. KBS 11	Nos			0.00	3247.56	0.00	0.00	0.00

69	Concealed Conduit System Supplying heavy gauge PVC conduit pipe ……mm dia ... thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adh paste etc., and running before concreting the slab. The conduit should be tied t reinforcement rods by using binding wires and unused ways of junction boxes and pipe should be covered using PVC end enclosures, run with 18SWG GI fish wire whe necessary.b)25mm dia 2mm thick Complete as per specification and direction of Engi in-charge of the work.	Rmt			300.00	57.00	17100.00	300.00	17100.00
70	Supplying And Fixing Metal Fan Box with Round Hook. Complete as per specificatio direction of Engineer-in-charge of the work.	Nos			20.00	92.00	1840.00	20.00	1840.00
71	Supplying heavy gauge PVC Conduit Pipe ….dia .....mm thick with suitable size b metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by br U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish run throughout the conduit wherever necessary. b)25mm dia 2mm thick Compl per specification and direction of Engineer-in-charge of the work.	Mtrs			200.00	58.00	11600.00	200.00	11600.00
72	Supplying and flush mounting powder coated / galvanized metal box suitable for mou modular switch plates. The box should be firmly flush mounted after due groove cutti Brick/Stone/C.C wall.1-3Way Complete as per specification and direction of Engine charge of the work.	Each			10.00	91.00	910.00	10.00	910.00
73	4-5Way	Each			4.00	98.00	392.00	4.00	392.00
74	6Way	Each			18.00	121.00	2178.00	18.00	2178.00
75	10-12Way	Each			3.00	159.00	477.00	3.00	477.00
76	16Way	Each			11.00	172.00	1892.00	11.00	1892.00
77	Supplying and fixing superior quality modular switch mounting polycarbonate plate necessary supporting back plate with required nos. of machine screws, bolts nuts complete on the existing metal/PVC box.1 to 3 Module	Each			36.00	109.00	3924.00	36.00	3924.00
8	4 Module	Each			4.00	122.00	488.00	4.00	488.00
9	6 Module	Each			18.00	173.00	3114.00	18.00	3114.00
	10 Module	Each			3.00	227.00	681.00	3.00	681.00
	12 Module	Each			11.00	267.00	2937.00	11.00	2937.00
	Supplying and fixing of modular switch/ Socket/stepped electronic fan regu dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS	Each			0.00	63.00	0.00	0.00	0.00
	GROUP A 6Amps one way.	Each			0.00	87.00	0.00	0.00	0.00
	6Amps Two way.	Each			0.00	95.00	0.00	0.00	0.00
	6Amps 3way socket.	Each			0.00	286.00	0.00	0.00	0.00
	Stepped Fan Regulator.	Each			0.00	114.00	0.00	0.00	0.00
	6Amps one way switch	Each			0.00	87.00	0.00	0.00	0.00
	Amps Bell push	Each			0.00	164.00	0.00	0.00	0.00
	2Amps DP switch	Each			0.00	147.00	0.00	0.00	0.00
	16Amps universal socket								

90	TV/Telephone socket	Each			0.00	82.00	0.00	0.00	0.00
91	RJ45/ I.O. outlet	Each			0.00	204.00	0.00	0.00	0.00
92	Point wiring using Copper wire without switch. Supplying and wiring adopting loop in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor multistrand FRLS PVC insulated, 2X1.5Sq.mm Cable confirming to the GTP switch, the other end of the wires shall be terminated with sufficient loose leng wood/PVC round block complete for each outlet.GROUP A 1)Short point upto 3M tapping point to out let via switch box	Pts			33.00	144.00	4752.00	33.00	4752.00
93	2)Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box	Pts			20.00	215.00	4300.00	20.00	4300.00
94	3)Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box	Pts			25.00	334.00	8350.00	25.00	8350.00
95	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V multistrand Copper conductor single core wire in open or concealed system of wiring IS-694:1990 & confirming to GTP of GROUP -B. 1)1 sqmm.				0.00	0.00	0.00	0.00	0.00
96	2)1.5 sqmm	Mtrs			400.00	15.90	6360.00	400.00	6360.00
97	3)2.5 sqmm	Mtrs			400.00	24.90	9960.00	400.00	9960.00
98	4)4 sqmm	Mtrs			300.00	36.30	10890.00	300.00	10890.00
99	5)6 sqmm	Mtrs			200.00	53.20	10640.00	200.00	10640.00
100	Extra for supplying 4mm thick white plastic plate and covering for junction boxes .....mm conduit using necessary machine screws.80.mm	Nos			25.00	36.00	900.00	25.00	900.00
101	110mm	Nos			11.00	18.00	198.00	11.00	198.00
102	Supplying exhaust fan of 1440 RPM of 300mm (12") size with bracket blades comple light duty suitable to operate on 230V 50Hz, AC Supply.	Nos			0.00	1700.00	0.00	0.00	0.00
103	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopie for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374 and with double ball bearing system. 48" Sweep (1200mm)	Nos			0.00	2376.00	0.00	0.00	0.00
	Supply of 2'x2' LED recessed luminaire with ...Watts system wattage. Housing shall be pressure die cast aluminum alloy with corrosion proof resistant polyester power co Driver operates with voltage range from 100V to 270V 50/60 Hz with short cir overload & mis-wiring protection. Lumen Maintenance of 70% at 50000 Hrs. Injecti moulded poly carbonate diffuser for better mechanical stability, light transmission & an pot hole effect. Junction temperature shall be < 70 degree Celsius. Driver is on consta current driver @ 0.06A with PF > 0.92 with line voltage @ 220-240V @ 50/60Hz, driv fficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficien 75lm/w with CRI > 75 with injection moulded Polycarbonate lens with < 80mm depth ars Warranty against any manufacturing defect working under standard electric ndition	Nos			0.00	9373.00	0.00	0.00	0.00
	LED modular down light 2'x2'-55 watts								

05	Supply of LED Square Recessed Down lighter with 18W System Wattage. Housing sh with powder coated pressure die cast aluminum alloy with corrosion resistant poly powder coat & with extended heat sink. Diffuser/cover made of Lexan plastic mat Rated life shall be L70 @ 50000 Hrs. which shall has inbuilt electrical protection over/under voltage, short circuit, overload, open circuit & miswiring. Driver is on con current driver output driver @ 0.06A with PF > 0.9 with line voltage @ 220-240V 50/60Hz, driver efficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W Fixture Efficiency >75lm/w with CRI > 75 with injection moulded Polycarbonate len years Warranty against any manufacturing defect working under standard elect condition.	No			18.00	4945.00	89010.00	18.00	89010.00
	LED Indoor Supplying of 2' feet - LED PVC Square Batten ..W with high quality diff with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power In 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warr against any manufacturing defect working under standard electrical condition light fighting 4' - 28 watts	Nos			4.00	1774.00	7096.00	4.00	7096.00
	LED Post Top Lantern GARDEN.Supply of LED Post Top Lantern with system ... watt housing & frame shall be of powder coated, die cast aluminum, diffuser with high den polyethylene IP65 EPDM Gasket. Life 50000 Hrs. @ L70 shall be conforming to 0322/Part 5/ Section 5 @ 230V. 5 years Warranty against any manufacturing def working under standard electrical condition	Nos			0.00	15930.00	0.00	0.00	0.00
	LED Down light Supply of recess mounted rolling type LED Down light with 4/6W GU ED Lamp Rib Fabricated from Die cast aluminum with white powder coated prewired ains connector with suitable driver & having swiveling unit of aluminum die cast eye h LED Lamp position retained by circular wire spring. 5 years Warranty against m nufacturing defect working under standard electrical condition. LED square or ro vn light 5x1 watts	Nos			0.00	1428.00	0.00	0.00	0.00

109	Supplying of LED Floodlight with .....W System Power consumption pressure die aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage w electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE w Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficac 80lm/w. Over load & Short circuit protection ensures reliable operation in spite of probl in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence w RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease maintenance at the sight site location with minimized minimal tools. LED Light fixture w .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficien >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facil accredited by NABL/CPRI & any Government certified agency & Design & Developme facility certified by ISO 9001:2008. Housing with supplier word mark /name shall Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against a manufacturing defect working under standard electrical conditions as mentioned abo should be given by LED manufacturer. LED Floodlight 90W	Nos			0.00	14646.00	0.00	0.00	0.00
110	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extrud inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armour cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3 core 25 sqmm	Mtrs			120.00	165.60	19872.00	120.00	19872.00
11	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stonewa pipe / on wall / on pole as required.In existing trench/du 25 sqmm to 75 sqmm	Mtrs			120.00	16.20	1944.00	120.00	1944.00
2	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required groun level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtrs			0.00	78.00	0.00	0.00	0.00
	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia olts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia upplying and running of GI/Copper strips for grounding connections, using necessary xing materials as required. GI strip	Nos			0.00	2727.00	0.00	0.00	0.00
		Mtrs			0.00	77.00	0.00	0.00	0.00

115	Fabricating supplying and mounting MS box made out … SWG suitable for floor / wa mounting, fully weather proof with provision for better heat dissipation, provided wi hinged front cover, equipped with tamper proof locking arrangements, with suitable siz clamps with necessary cable entry pipe with gland and box should be finished with 2 coa of red oxide primer paint and finally finished with approved colour enameled metal pai etc., complete.16SWG	Sq CM			0.00	0.33	0.00	0.00	0.00
116	Supplying and fixing miniature circuit breakers on existing MCB distribution boards usin necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Sho circuit breaking capacity of 10K and complete wiring as required confirming to IE 60898.40-63 Amps SP	Nos			0.00	677.00	0.00	0.00	0.00
117	5-32 Amps DP	Nos			0.00	849.00	0.00	0.00	0.00
118	.40-63Amps TPN	Nos			0.00	1963.00	0.00	0.00	0.00
119	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel usin necessary nuts, bolts and washers.100Amps	Nos			0.00	360.00	0.00	0.00	0.00
120	Fabricating, supplying and erection of …Mtrs long hot dip Galvanized Conical pole wit BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door openin arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specification suitable to withstand the wind speed of 47 m/sec for …….Mtrs pole in single section an single joint welded as per IS 9595/IS 10178AWS having dimensions bottom …..mm top….mm with 3mm thick, suitable base plate and 4Nos of ..... long J bolts along wi template and the pole shall be hot dip galvanized in single dipping with not less tha 65micron as per ASTM-A123 and 153 etc.,(excluding foundation) as per drawin appended.7 meters - Top 75mm and bottom 145 mm dia	Nos			0.00	14040.00	0.00	0.00	0.00
121	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.40mm	Mtrs			0.00	345.00	0.00	0.00	0.00
122	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.25Sqmm	Nos			0.00	362.00	0.00	0.00	0.00
	Supplying and fixing hylum plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N.F. screws.	Sq CM			0.00	0.22	0.00	0.00	0.00
	Providing Rcc Pole pedstal of Size 0.5x0.5x1.6 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1;4;8base concrete,1;2;4pedestal concrete and etc coplete as per the data sheet enclosed	Nos			0.00	4199.00	0.00	0.00	0.00

125	Supplying of...TR split Air conditioners suitable for operation on A/C supply single ph as 50 Hz 230 Volts with hermetically sealed compressor with air cooled condenser, moto capacitor and start run capacitors, relay and over load protector internal unit, with on indoor and one outdoor unit. The condenser unit will be placed outside the room on th terrace to avoid noise including standard length of suitable size copper tubing covered wit insulation tube.(High wall chorded/cordless) suitable capacity 3 core sheathed/ PVC coppe cable and a battery operated wireless remote unit. 5star 2 ton capacity	Nos			0.00	67060.00	0.00	0.00	0.00
126	Supplying and installation of insulated refrigerant copper tubing of 5/8`` and 3/8`` wit polythene foam insulation 3 core 80 stand copper wiring between indoor and outdoor uni Leak testing oil and gas charging for additional piping length of tube.Split	Mtrs			0.00	1193.00	0.00	0.00	0.00
127	Supplying, erecting, testing and commissioning of voltage stabilizer suitable for 170 to 27 v in put and load variation from no load to full load, with over load protection, spik suppression, operating at 00 C to 400 C. Range etc., complete.4KVA Capacity	Nos			0.00	4317.00	0.00	0.00	0.00
128	Bescom Charge	L/S			0.00	7348.00	0.00	0.00	0.00
					Total Rs		**11710266.86**		**11710266.86**
					KRIDL Charges 4.5%		**526962.01**		**526962.01**
					Total Rs		**12237228.87**		**12237228.87**
					GST Charges 12%		**1468467.46**		**1468467.46**
					Grand Total		**13705696.33**		**13705696.33**

Certificate

1 Certified that the contractor has work done satisfactorily.
2 The contractor has removed the debries from work site.
3 There is no any dept. materials issued to contractor

Assistant Engineer
Ward No 12, Shettyhalli
BBMP, Bangalore

Assistant Executive Engineer
Shettyhalli Sub Division
BBMP, Bangalore

11710266 –
468611 –
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13640342